

DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 39

[Docket No. 2004-CE-11-AD; Amendment 39-13856; AD 2004-22-28]

RIN 2120-AA64

Airworthiness Directives; Raytheon Aircraft Company Model B100 Airplanes

AGENCY: Federal Aviation Administration (FAA), DOT.

ACTION: Final rule.

SUMMARY: The FAA adopts a new airworthiness directive (AD) for certain Raytheon Aircraft Company (Raytheon) Model B100 airplanes. This AD requires you to drill holes in the hot lip tube "B" nuts, tighten the "B" nuts to specified torque ranges, and secure the "B" nuts with safety wire. This AD is the result of reports of loose "B" nuts on the engine inlet that may loosen and permit a leak in the engine inlet anti-ice system. We are issuing this AD to detect and correct loose "B" nuts on the engine inlet, which could result in failure of the engine inlet anti-ice system and consequent ice buildup. This failure and ice buildup could lead to an engine's ingestion of ice with loss of engine power or loss of engine.

DATES: This AD becomes effective on December 27, 2004.

As of December 27, 2004, the Director of the Federal Register approved the incorporation by reference of certain publications listed in the regulation.

ADDRESSES: You may get the service information identified in this AD from Raytheon Aircraft Company, 9709 E. Central, Wichita, Kansas 67201-0085; telephone: (800) 429-5372 or (316) 676-3140.

You may view the AD docket at FAA, Central Region, Office of the Regional Counsel, Attention: Rules Docket No. 2004-CE-11-AD, 901 Locust, Room 506, Kansas City, Missouri 64106. Office hours are 8 a.m. to 4 p.m., Monday through Friday, except Federal holidays.

FOR FURTHER INFORMATION CONTACT: Jeff Pretz, Aerospace Engineer, Wichita Aircraft Certification Office, FAA, 1801 Airport Road, Wichita, Kansas 67209; telephone: (316) 946-4153; facsimile: (316) 946-4407.

SUPPLEMENTARY INFORMATION:

Discussion

What events have caused this AD? The FAA has received six reports of loose "B" nuts on the Raytheon Model B100 engine inlet anti-ice system found during routine maintenance. These loose "B" nuts may permit a leak in the engine inlet anti-ice system that would result in failure of the system with consequent ice buildup on the engine inlet.

What is the potential impact if FAA took no action? Failure of the engine inlet anti-ice system and consequent ice buildup could lead to an engine's ingestion of ice with loss of engine power or loss of engine.

Has FAA taken any action to this point? We issued a proposal to amend part 39 of the Federal Aviation Regulations (14 CFR part 39) to include an AD that would apply to certain Raytheon Model B100 airplanes. This proposal was published in the Federal Register as a notice of proposed rulemaking (NPRM) on May 26, 2004 (69 FR 29910). The NPRM proposed to require you to drill holes in the hot lip tube "B" nuts, tighten the "B" nuts to specified torque ranges, and secure the "B" nuts with safety wire.

Comments

Was the public invited to comment? We provided the public the opportunity to participate in developing this AD. We received no comments on the proposal or on the determination of the cost to the public.

Conclusion

What is FAA's final determination on this issue? We have carefully reviewed the available data and determined that air safety and the public interest require adopting the AD as proposed except for minor editorial corrections. We have determined that these minor corrections:

- Are consistent with the intent that was proposed in the NPRM for correcting the unsafe condition; and
- Do not add any additional burden upon the public than was already proposed in the NPRM.

Changes to 14 CFR Part 39–Effect on the AD

How does the revision to 14 CFR part 39 affect this AD? On July 10, 2002, the FAA published a new version of 14 CFR part 39 (67 FR 47997, July 22, 2002), which governs the FAA's AD system. This regulation now includes material that relates to altered products, special flight permits, and alternative methods of compliance. This material previously was included in each individual AD. Since this material is included in 14 CFR part 39, we will not include it in future AD actions.

Costs of Compliance

How many airplanes does this AD impact? We estimate that this AD affects 96 airplanes in the U.S. registry.

What is the cost impact of this AD on owners/operators of the affected airplanes? We estimate the following costs to do the inspection and modification:

Labor cost	Parts cost	Total cost per airplane	Total cost on U.S. operators
4 workhours × \$65 per hour = \$260	Not Applicable	\$260	\$24,960

Regulatory Findings

Will this AD impact various entities? We have determined that this AD will not have federalism implications under Executive Order 13132. This AD will not have a substantial direct effect on the States, on the relationship between the national government and the States, or on the distribution of power and responsibilities among the various levels of government.

Will this AD involve a significant rule or regulatory action? For the reasons discussed above, I certify that this AD:

1. Is not a "significant regulatory action" under Executive Order 12866;
2. Is not a "significant rule" under the DOT Regulatory Policies and Procedures (44 FR 11034, February 26, 1979); and
3. Will not have a significant economic impact, positive or negative, on a substantial number of small entities under the criteria of the Regulatory Flexibility Act.

We prepared a summary of the costs to comply with this AD and placed it in the AD Docket. You may get a copy of this summary by sending a request to us at the address listed under ADDRESSES. Include "AD Docket No. 2004-CE-11-AD" in your request.

List of Subjects in 14 CFR Part 39

Air transportation, Aircraft, Aviation safety, Incorporation by reference, Safety.

Adoption of the Amendment

Accordingly, under the authority delegated to me by the Administrator, the Federal Aviation Administration amends part 39 of the Federal Aviation Regulations (14 CFR part 39) as follows:

PART 39—AIRWORTHINESS DIRECTIVES

1. The authority citation for part 39 continues to read as follows:

Authority: 49 U.S.C. 106(g), 40113, 44701.

§ 39.13 [Amended]

2. FAA amends § 39.13 by adding a new AD to read as follows:

AIRWORTHINESS DIRECTIVE

Aircraft Certification Service
Washington, DC



U.S. Department
of Transportation
**Federal Aviation
Administration**

We post ADs on the internet at "www.faa.gov"

The following Airworthiness Directive issued by the Federal Aviation Administration in accordance with the provisions of Title 14 of the Code of Federal Regulations (14 CFR) part 39, applies to an aircraft model of which our records indicate you may be the registered owner. Airworthiness Directives affect aviation safety and are regulations which require immediate attention. You are cautioned that no person may operate an aircraft to which an Airworthiness Directive applies, except in accordance with the requirements of the Airworthiness Directive (reference 14 CFR part 39, subpart 39.3).

2004-22-28 Raytheon Aircraft Company: Amendment 39-13856; Docket No. 2004-CE-11-AD.

When Does This AD Become Effective?

- (a) This AD becomes effective on December 27, 2004.

What Other ADs Are Affected by This Action?

- (b) None.

What Airplanes Are Affected by This AD?

- (c) This AD affects Model B100 airplanes, serial numbers BE-1 through BE-136, that are certificated in any category.

What Is the Unsafe Condition Presented in This AD?

- (d) This AD is the result of reports of loose "B" nuts on the engine inlet that may loosen and permit a leak in the engine inlet anti-ice system. The actions specified in this AD are intended to detect and correct loose "B" nuts on the engine inlet, which could result in failure of the engine inlet anti-ice system and consequent ice buildup. This failure and ice buildup could lead to an engine's ingestion of ice with loss of engine power or loss of engine.

What Must I Do To Address This Problem?

- (e) To address this problem, you must do the following:

Actions	Compliance	Procedures
(1) Drill a 0.035-inch hole in each of the hot tube "B" nuts (part number (P/N) AN818-6D and AN818-8D).	Within the next 150 hours time-in-service (TIS) or 6 calendar months after December 27, 2004 (the effective date of this AD), whichever occurs first.	Follow Raytheon Aircraft Mandatory Service Bulletin No. SB 30-3143, dated September 2001. The applicable airplane maintenance manual also addresses this issue.

<p>(2) Tighten the hot lip tube “B” nuts to a specified torque range:</p> <p>(i) Tighten hot lip tube “B” nuts P/N AN818–6D to a torque range of 75 to 125 inch-pounds.</p> <p>(ii) Tighten hot lip tube “B” nuts P/N AN818–8D to a torque range of 150 to 250 inch-pounds.</p>	<p>Before further flight after the actions required by paragraph (e)(1) of the AD.</p> <p>Before further flight after the actions required by paragraph (e)(2) of this AD.</p>	<p>Follow Raytheon Aircraft Mandatory Service Bulletin No. SB 30–3143, dated September 2001. The applicable airplane maintenance manual also addresses this issue.</p> <p>Follow Raytheon Aircraft Mandatory Service Bulletin No. SB 30–3143, dated September 2001. The applicable airplane maintenance manual also addresses this issue.</p>
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May I Request an Alternative Method of Compliance?

(f) You may request a different method of compliance or a different compliance time for this AD by following the procedures in 14 CFR 39.19. Unless FAA authorizes otherwise, send your request to your principal inspector. The principal inspector may add comments and will send your request to the Manager, Wichita Aircraft Certification Office (ACO), FAA. For information on any already approved alternative methods of compliance, contact Jeff Pretz, Aerospace Engineer, Wichita ACO, FAA, 1801 Airport Road, Wichita, Kansas 67209; telephone: (316) 946-4153; facsimile: (316) 946-4407.

Does This AD Incorporate Any Material by Reference?

(g) You must do the actions required by this AD following the instructions in Raytheon Aircraft Mandatory Service Bulletin No. SB 30-3143, dated September 2001. The Director of the Federal Register approved the incorporation by reference of this service bulletin in accordance with 5 U.S.C. 552(a) and 1 CFR part 51. You may get a copy from Raytheon Aircraft Company, 9709 E. Central, Wichita, Kansas 67201-0085; telephone: (800) 429-5372 or (316) 676-3140. You may review copies at FAA, Central Region, Office of the Regional Counsel, 901 Locust, Room 506, Kansas City, Missouri 64106; or at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call (202) 741-6030, or go to: http://www.archives.gov/federal_register/code_of_federal_regulations/ibr_locations.html.

Issued in Kansas City, Missouri, on October 27, 2004.

David R. Showers,

Acting Manager, Small Airplane Directorate, Aircraft Certification Service.

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